

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P949788

Luminaire Tested: **GALN-SB4B-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13943 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

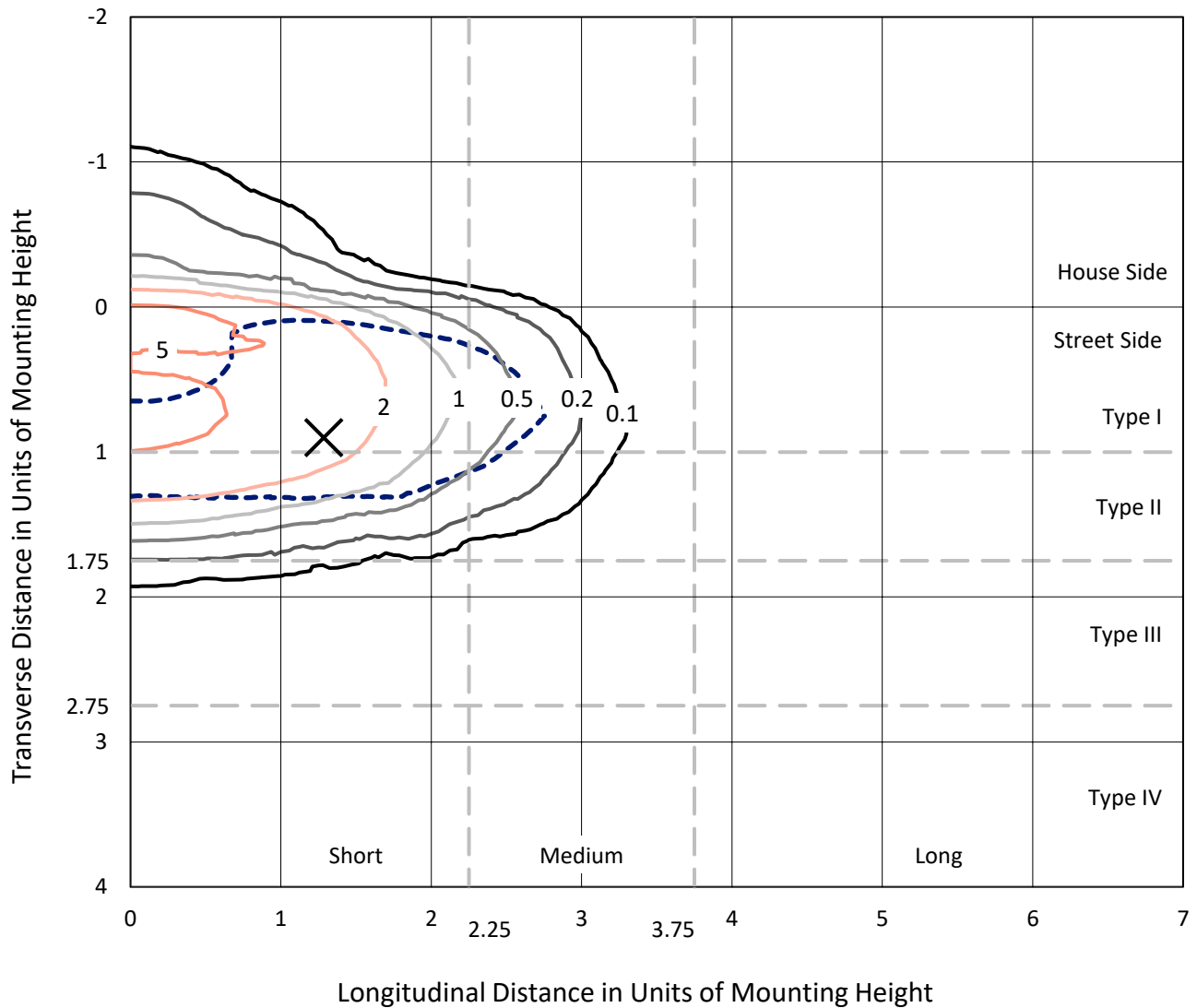
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

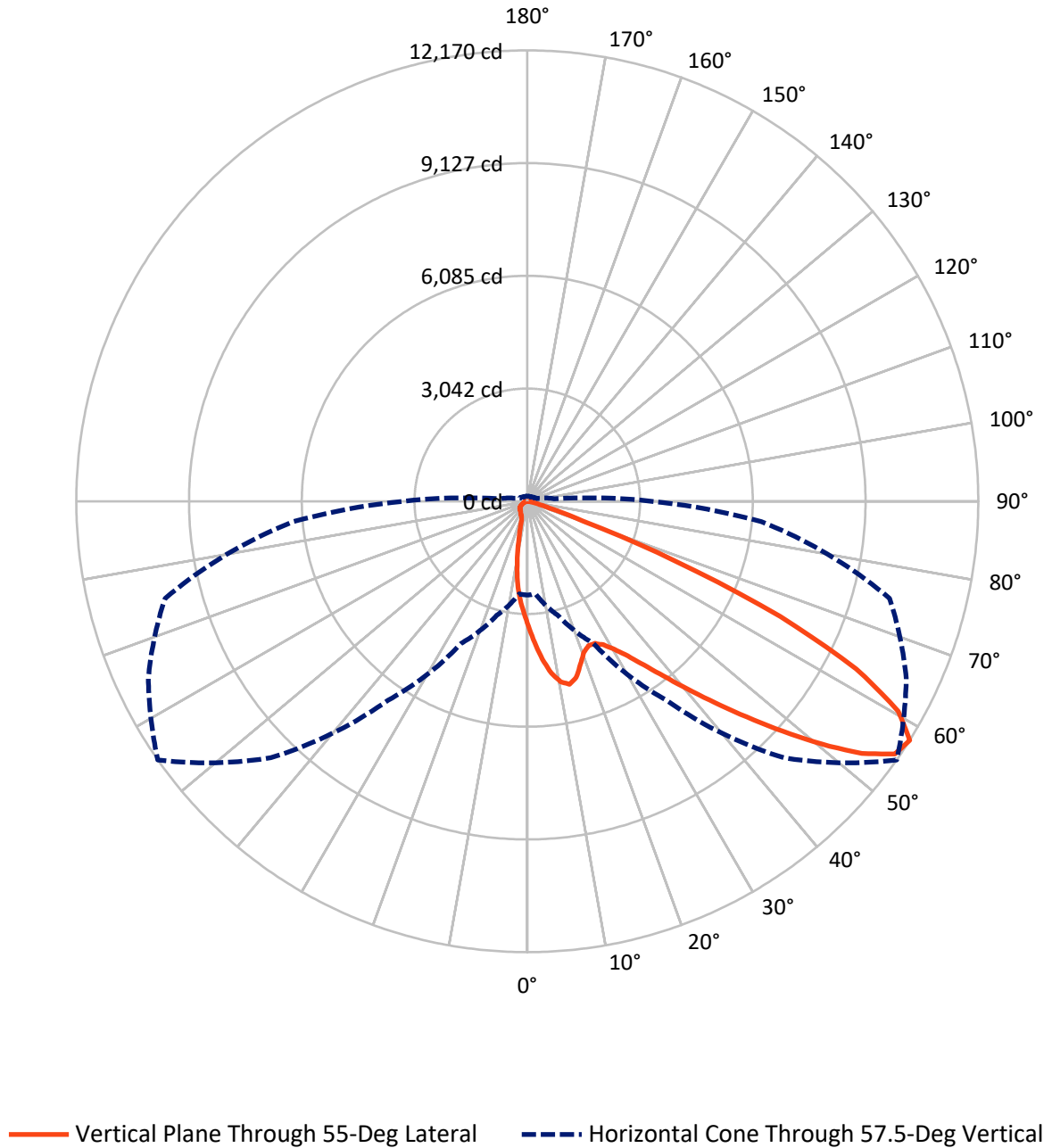
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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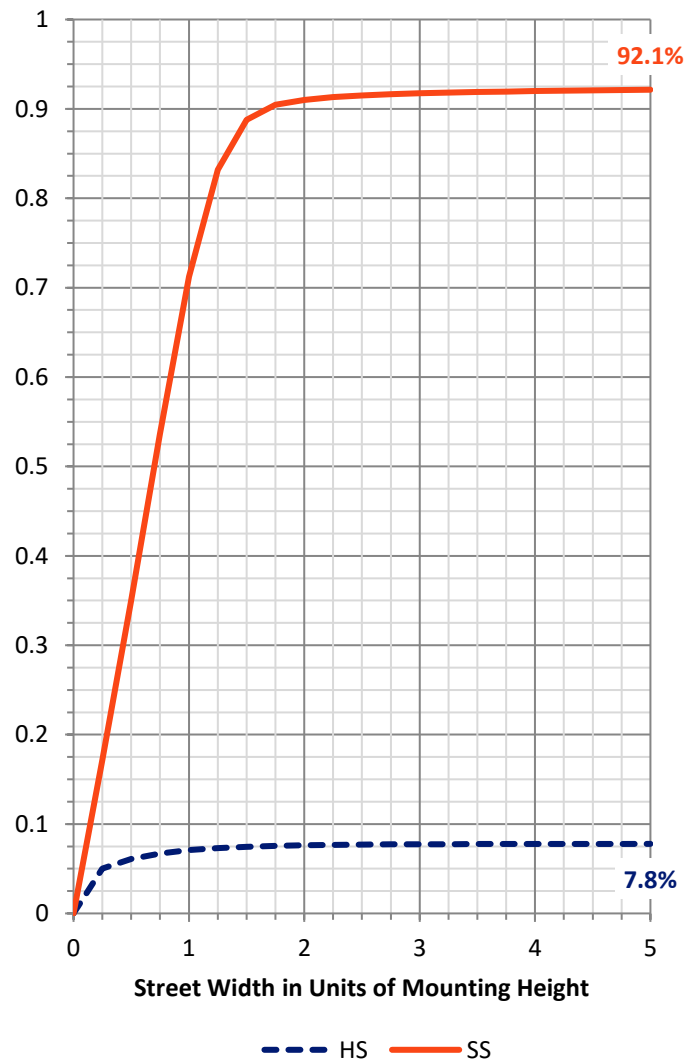
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1088.9	0.0	1088.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	12854.1	0.0	12854.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	13943.0	0.0	13943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.6	2.2
10°-20°	755.1	5.4
20°-30°	1208.2	8.7
30°-40°	2045.0	14.7
40°-50°	3357.4	24.1
50°-60°	3690.0	26.5
60°-70°	2116.6	15.2
70°-80°	432.5	3.1
80°-90°	25.5	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13943.0	100.0
0°-180°	13943.0	100.0

Coefficient of Utilization



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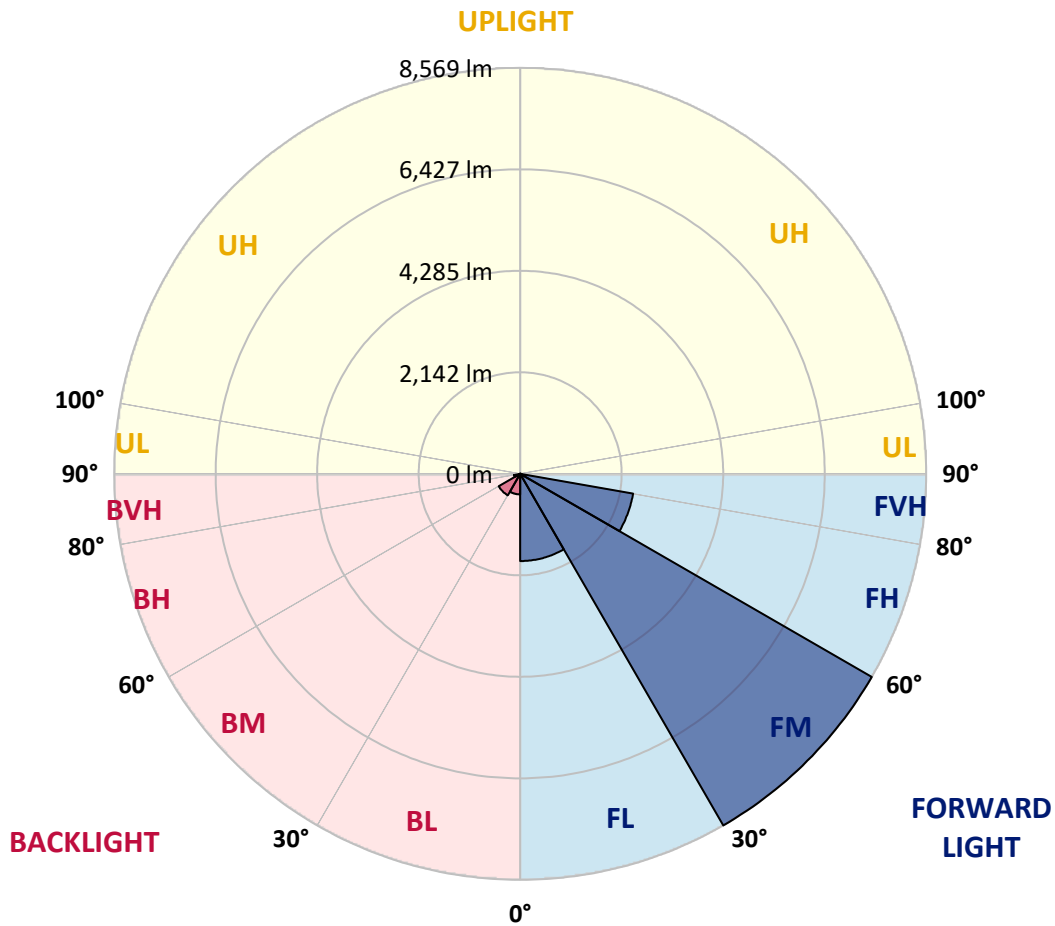
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1841.3	13.2			
FM (30°-60°)	8569.5	61.5			
FH (60°-80°)	2419.6	17.4			G2/5000
FVH (80°-90°)	23.8	0.2			G1/100
BL (0°-30°)	434.7	3.1	B1/500		
BM (30°-60°)	523.0	3.8	B1/1000		
BH (60°-80°)	129.5	0.9	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9
2.5°	4168.9	4116.5	4108.8	4098.4	3998.7	3923.9	3815.6	3696.9	3563.7	3427.8
5°	4816.3	4775.1	4767.3	4719.2	4605.7	4478.5	4285.9	4042.6	3794.1	3501.8
7.5°	4941.9	4934.1	4969.4	4967.7	4952.2	4851.6	4689.1	4399.4	4026.2	3592.9
10°	4382.2	4401.9	4506.8	4598.8	4847.3	4991.7	4956.5	4717.5	4265.2	3696.9
12.5°	3872.3	3849.1	3923.9	4027.9	4316.8	4746.7	5067.4	4983.1	4538.6	3814.7
15°	3552.5	3543.0	3585.2	3633.3	3853.4	4286.7	4938.4	5198.9	4801.7	3954.0
17.5°	3450.2	3442.5	3455.4	3467.4	3610.1	3945.4	4631.5	5331.3	5053.6	4113.1
20°	3533.6	3523.3	3521.6	3512.1	3571.4	3800.1	4353.8	5340.8	5279.8	4257.5
22.5°	3776.9	3764.9	3722.7	3684.9	3690.1	3819.9	4230.0	5246.2	5450.0	4392.5
25°	4218.0	4198.2	4110.5	3983.2	3902.4	3957.4	4248.9	5121.6	5612.5	4498.2
27.5°	4769.9	4744.1	4631.5	4442.3	4257.5	4190.4	4385.6	5035.6	5747.5	4579.1
30°	5310.7	5277.2	5166.3	5019.2	4749.3	4537.8	4632.4	5073.4	5908.2	4663.3
32.5°	5894.5	5862.7	5715.6	5533.4	5309.8	5025.3	4970.2	5258.3	6105.1	4781.1
35°	6633.0	6583.1	6374.2	6125.7	5888.5	5600.4	5427.6	5577.2	6367.3	4960.8
37.5°	7473.8	7406.8	7181.5	6838.5	6529.0	6206.6	5984.7	6015.7	6751.6	5201.5
40°	8266.5	8205.5	7997.4	7674.2	7285.6	6894.4	6657.9	6589.2	7282.1	5494.7
42.5°	8742.0	8687.0	8599.3	8462.6	8135.0	7736.1	7437.7	7289.0	7909.7	5845.5
45°	8768.6	8720.5	8838.3	8997.3	8932.8	8667.2	8303.5	8031.0	8539.9	6174.8
47.5°	8342.2	8309.5	8667.2	9222.6	9499.4	9611.2	9275.9	8711.0	9060.1	6411.2
50°	7179.8	7167.8	7903.7	8923.4	9715.2	10438.3	10301.6	9343.8	9463.3	6533.3
52.5°	6225.5	6181.6	6610.6	7965.6	9401.4	10873.3	11304.0	9964.6	9745.3	6556.5
55°	4721.8	4683.1	5221.3	6363.0	8389.5	10718.6	12037.4	10605.1	9947.4	6497.2
57.5°	2532.8	2508.8	3188.8	4235.1	6558.2	9790.0	12169.8	11282.6	10117.6	6339.8
60°	986.1	981.8	1236.3	2054.8	3985.8	7964.8	11501.8	11689.2	10224.2	6146.4
62.5°	596.7	609.6	650.8	922.5	1760.8	4947.9	9962.0	11226.7	10295.6	5969.3
65°	493.5	494.4	499.5	633.6	843.4	2070.3	7499.6	9704.9	10119.3	5653.7
67.5°	423.0	430.7	450.5	503.0	594.9	907.9	4317.7	7517.7	9047.2	4919.5
70°	333.6	343.9	368.8	413.5	459.1	568.3	1595.7	5002.0	6911.6	3708.1
72.5°	281.1	280.3	293.2	336.2	364.5	399.8	613.9	2802.8	4016.8	1770.2
75°	217.5	226.1	242.5	281.1	298.3	289.7	332.7	1024.0	1439.2	536.5
77.5°	170.2	177.1	191.7	229.6	246.7	205.5	191.7	366.3	462.5	192.6
80°	76.5	82.5	130.7	169.4	201.2	141.9	104.0	187.4	205.5	87.7
82.5°	13.8	23.2	76.5	89.4	103.2	92.0	54.2	97.2	100.6	35.2
85°	0.9	1.7	26.7	32.7	41.3	30.1	16.3	38.7	33.5	12.0
87.5°	0.0	0.0	0.0	0.9	0.9	4.3	5.2	6.9	5.2	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3359.9	0°	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9	3359.9
3367.7	2.5°	3305.8	3183.7	3065.0	2967.9	2911.1	2814.8	2751.2	2740.9	2714.2	2737.5
3376.3	5°	3242.1	3023.8	2802.8	2605.1	2442.6	2232.8	2076.3	2010.1	1952.5	1972.3
3398.6	7.5°	3212.0	2867.3	2523.4	2185.5	1838.2	1502.9	1253.5	1149.5	1070.4	1081.6
3423.5	10°	3171.6	2704.8	2165.7	1649.9	1184.7	853.7	681.8	618.2	582.9	583.8
3460.5	12.5°	3140.7	2510.5	1750.5	1118.5	721.3	545.1	491.8	476.3	466.0	466.8
3516.4	15°	3125.2	2281.8	1340.4	745.4	515.9	461.7	448.8	441.9	435.0	434.2
3578.3	17.5°	3099.4	2027.3	981.0	544.2	451.4	432.5	421.3	413.5	404.9	403.2
3631.6	20°	3060.7	1738.4	717.0	460.0	423.0	408.4	392.9	382.6	372.3	370.6
3665.1	22.5°	2989.4	1433.2	551.1	425.6	402.4	386.0	367.1	355.1	344.8	343.0
3648.8	25°	2857.0	1146.9	464.3	404.1	384.3	364.5	343.9	327.6	318.1	316.4
3613.5	27.5°	2689.3	901.0	421.3	384.3	361.1	343.0	319.8	304.4	295.8	294.0
3567.1	30°	2491.6	693.8	396.3	362.0	333.6	318.1	297.5	284.6	279.4	279.4
3534.4	32.5°	2278.3	554.5	386.0	339.6	309.5	292.3	276.0	270.8	269.1	268.2
3552.5	35°	2078.0	481.5	380.9	321.5	288.0	271.7	264.8	265.7	269.1	269.1
3608.4	37.5°	1900.1	458.2	378.3	308.7	269.1	254.5	258.8	266.5	263.1	263.1
3706.4	40°	1739.3	460.8	376.6	299.2	253.6	245.0	253.6	247.6	239.0	238.2
3825.9	42.5°	1616.3	482.3	373.1	291.5	244.2	238.2	234.7	225.3	224.4	226.1
3949.7	45°	1526.9	501.2	372.3	288.0	233.9	222.7	218.4	208.9	226.1	230.4
4000.4	47.5°	1421.2	501.2	372.3	276.0	216.7	212.4	205.5	195.2	212.4	216.7
3952.3	50°	1284.5	469.4	357.7	262.2	202.9	200.3	188.3	175.4	172.0	174.5
3839.7	52.5°	1111.7	411.8	320.7	243.3	189.1	184.0	169.4	159.9	157.3	157.3
3637.6	55°	914.8	344.8	270.8	215.8	174.5	165.1	154.8	150.5	147.9	146.2
3354.8	57.5°	743.7	282.9	217.5	191.7	160.8	148.7	145.3	140.1	135.8	133.3
3118.3	60°	610.4	222.7	179.7	170.2	147.0	135.8	135.0	128.1	116.9	115.2
2923.2	62.5°	471.1	163.4	151.3	147.9	133.3	123.8	122.1	108.3	91.1	87.7
2646.3	65°	332.7	127.2	122.1	129.8	118.6	110.0	105.7	85.1	67.1	64.5
2214.7	67.5°	233.9	106.6	96.3	113.5	103.2	92.0	89.4	72.2	55.9	54.2
1674.8	70°	166.8	86.8	79.1	97.2	82.5	80.8	75.7	60.2	45.6	43.8
828.8	72.5°	117.8	66.2	61.0	84.3	56.7	69.6	61.9	46.4	34.4	32.7
282.0	75°	86.8	47.3	43.0	49.0	41.3	52.4	43.8	31.0	21.5	20.6
127.2	77.5°	63.6	30.1	25.8	24.1	24.1	32.7	24.1	12.9	9.5	8.6
64.5	80°	44.7	13.8	12.0	10.3	9.5	7.7	3.4	1.7	0.9	0.9
22.4	82.5°	26.7	6.0	6.0	4.3	2.6	0.0	0.0	0.0	0.0	0.0
8.6	85°	6.0	2.6	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
3.4	87.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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